

DSN Antenna Downtime Status and Forecast



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Antenna Downtime Status and Forecast

Changes to 2007 Downtime Schedule

- ❑ Two hour complex-wide downtime per complex every six months (day shift) for Network Infrastructure, this will be used to scan complex servers for vulnerabilities. The following have been proposed:
 - ❑ SPC 10 11/12/2007 00:00 –11/12/2007 02:00
 - ❑ SPC 40 11/12/2007 11:00 –11/12/2007 13:00
 - ❑ SPC 60 11/12/2007 06:00 –11/12/2007 08:00
- ❑ Proposal for 34 downtime hours for DSS-43 for Rescue Platform Install on DOY 340-342.

Changes to 2008 Downtime Schedule

- ❑ There are proposed changes to the 2008 Commercial power installation task. Currently the task is proposed to occur in two 12 hour blocks on Monday and Tuesday, March - April 2008. It is being analyzed to occur in one 36 hour block on Saturday and Sunday

All previous downtime proposals have been agreed to by all DSN Missions/Users through the INCF/RAR, JURAP or Mid-Range Scheduling Process

Antenna Downtime Status and Forecast

DSN Antenna Downtime Report

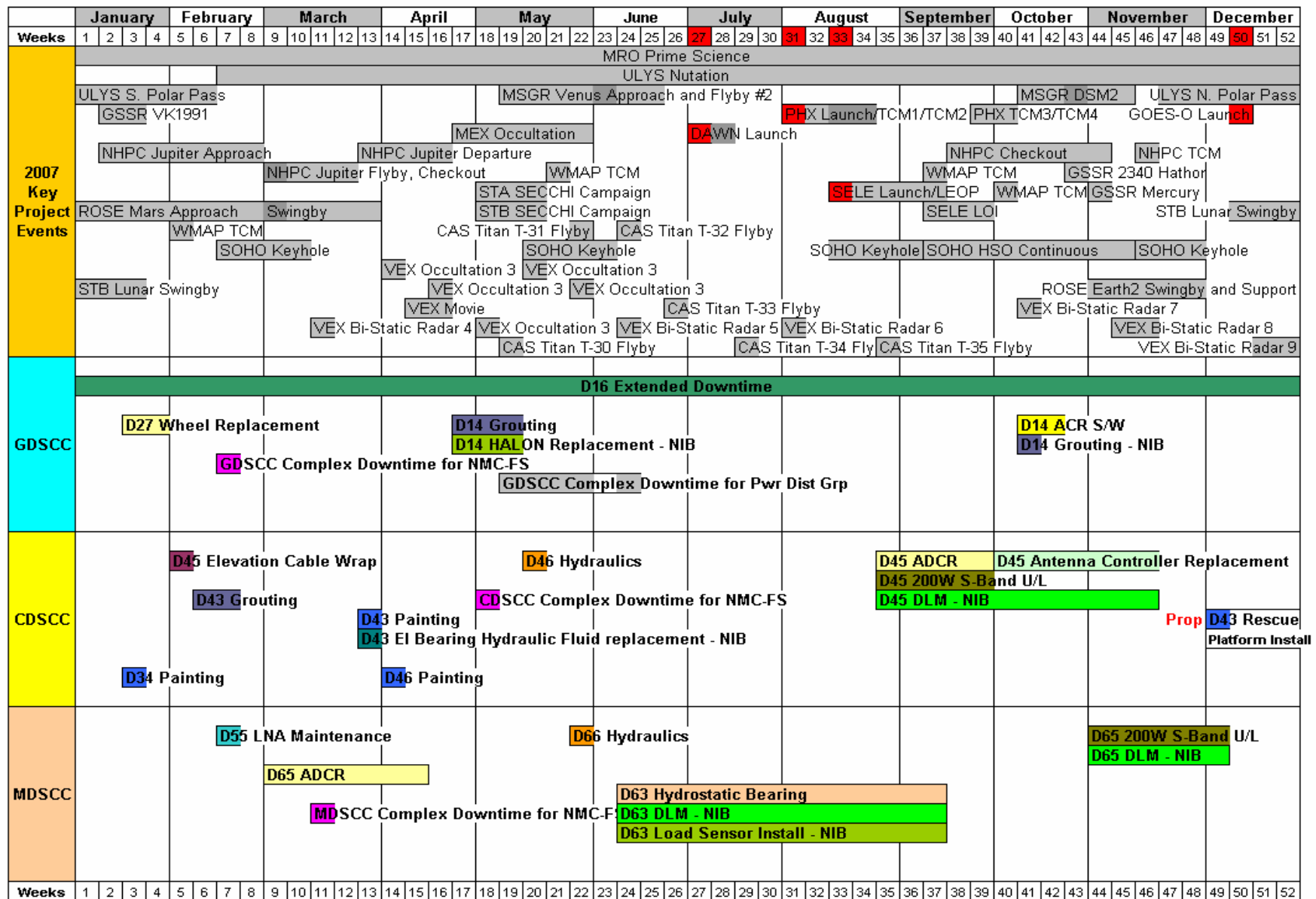
2007							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 46	Hydraulics	05/14/2007 00:00	05/19/2007 23:59	5	20 - 20	134	138
SPC 10	Pwr Dist Grp	05/17/2007 13:00	05/18/2007 05:00	1	20 - 20	137	137
SPC 10	Pwr Dist Grp	05/21/2007 15:15	05/22/2007 03:15	1	21 - 21	141	141
SPC 10	Pwr Dist Grp	05/26/2007 14:00	05/27/2007 02:00	1	21 - 21	146	146
DSS 66	Hydraulics Task	05/28/2007 00:00	06/01/2007 23:59	5	22 - 22	148	152
SPC 10	Pwr Dist Grp	06/02/2007 15:15	06/03/2007 07:15	1	22 - 22	153	153
SPC 10	Pwr Dist Grp	06/02/2007 15:15	06/03/2007 07:15	1	22 - 22	153	153
DSS 63	Hydrostatic Bearing Replacement	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Depot Level Maintenance - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Load Sensors Install - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
SPC 10	Pwr Dist Grp	06/13/2007 15:00	06/14/2007 03:00	1	24 - 24	164	164
DSS 45	Antenna Drive Cabinet Refurbishment	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	S-Band 200w U/L Install - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Depot Level Maintenance - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Antenna Controller Replacement	10/01/2007 00:00	11/19/2007 23:59	49	40 - 46	274	322
DSS 14	ACR S/W Install	10/08/2007 00:00	10/21/2007 23:59	13	41 - 42	281	293
DSS 14	Grouting - NIB	10/08/2007 00:00	10/14/2007 23:59	7	41 - 41	281	287
DSS 65	200w S-Band U/L	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343
DSS 65	Depot Level Maintenance - NIB	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343
SPC 10	Network Infrastructure	11/12/2007 00:00	11/12/2007 02:00	0	46 - 45	316	315
SPC 60	Network Infrastructure	11/12/2007 06:00	11/12/2007 08:00	0	46 - 45	316	315
SPC 40	Network Infrastructure	11/12/2007 11:00	11/12/2007 13:00	0	46 - 45	316	315

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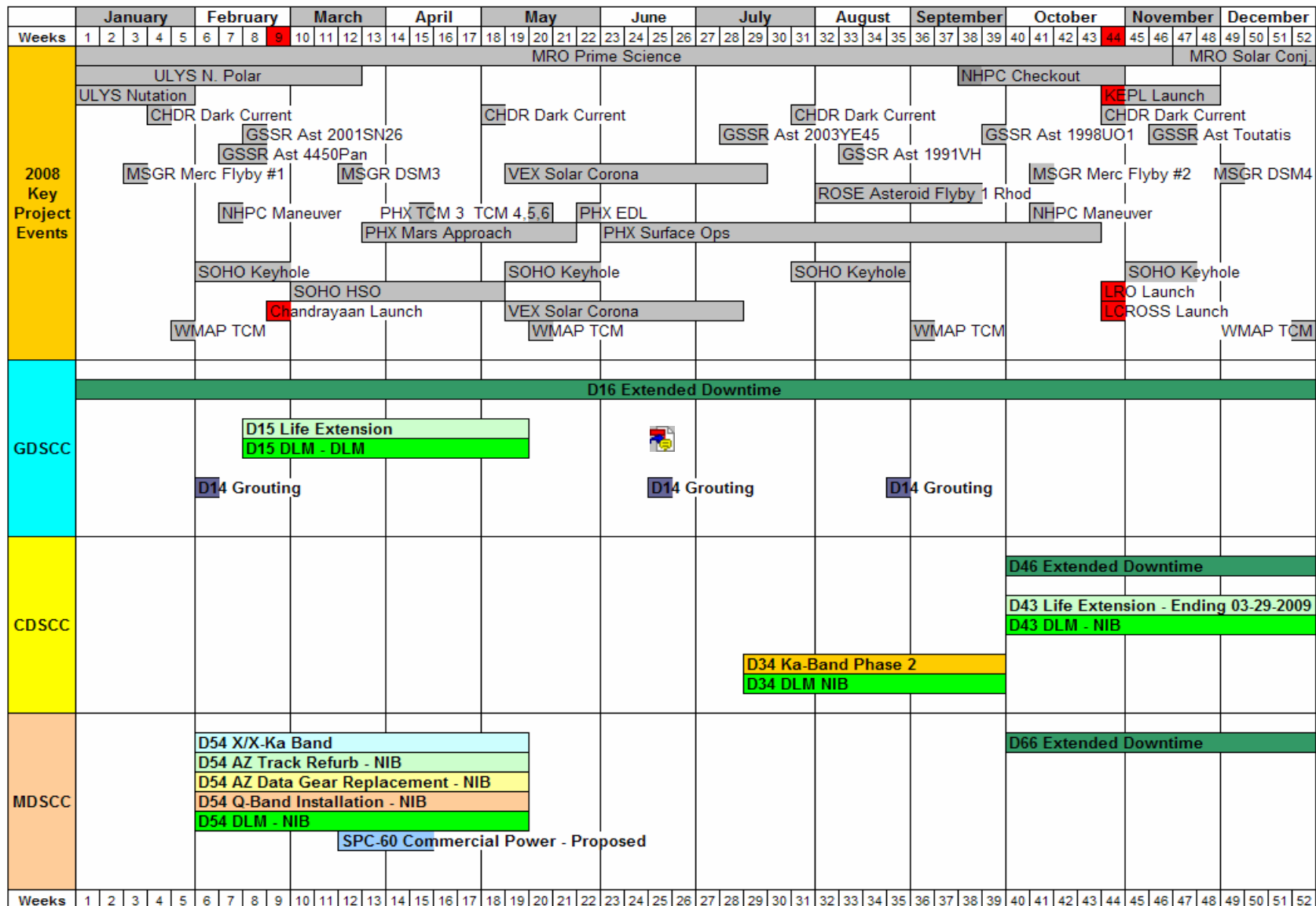
2008							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	X/Ka-Band Install	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Track Refurbishment - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Data Gear Replacement - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Q-Band Installation - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Depot Level Maintenance - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 15	Life Extension	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
DSS 15	Depot Level Maintenance - NIB	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
SPC 60	Commercial Power Installation	03/23/2008 07:00	03/23/2008 19:00	1	12 - 12	083	082
SPC 60	Commercial Power Installation	03/24/2008 07:00	03/24/2008 19:00	1	13 - 13	084	083
SPC 60	Commercial Power Installation	03/30/2008 06:00	03/30/2008 18:00	1	13 - 13	090	089
SPC 60	Commercial Power Installation	03/31/2008 06:00	03/31/2008 18:00	1	14 - 14	091	090
SPC 60	Commercial Power Installation	04/06/2008 06:00	04/06/2008 18:00	1	14 - 14	097	096
SPC 60	Commercial Power Installation	04/07/2008 06:00	04/07/2008 18:00	1	15 - 15	098	097
DSS 34	Ka-Band Phase 2 Install	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 34	Depot Level Maintenance - NIB	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 43	Life Extension	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088
DSS 43	Depot Level Maintenance - NIB	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088
2009							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	Life Extension	03/30/2009 00:00	09/27/2009 23:59	182	14 - 39	089	270
DSS 24	Ka-Band Phase 2 Install	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 24	Depot Level Maintenance - NIB	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 14	Life Extension	09/28/2009 00:00	03/28/2010 23:59	182	40 - 12	271	087
2010							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Depot Level Maintenance - NIB	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269
DSS 54	Ka-Band Phase 2 Install	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269

Antenna Downtime Status and Forecast 2007



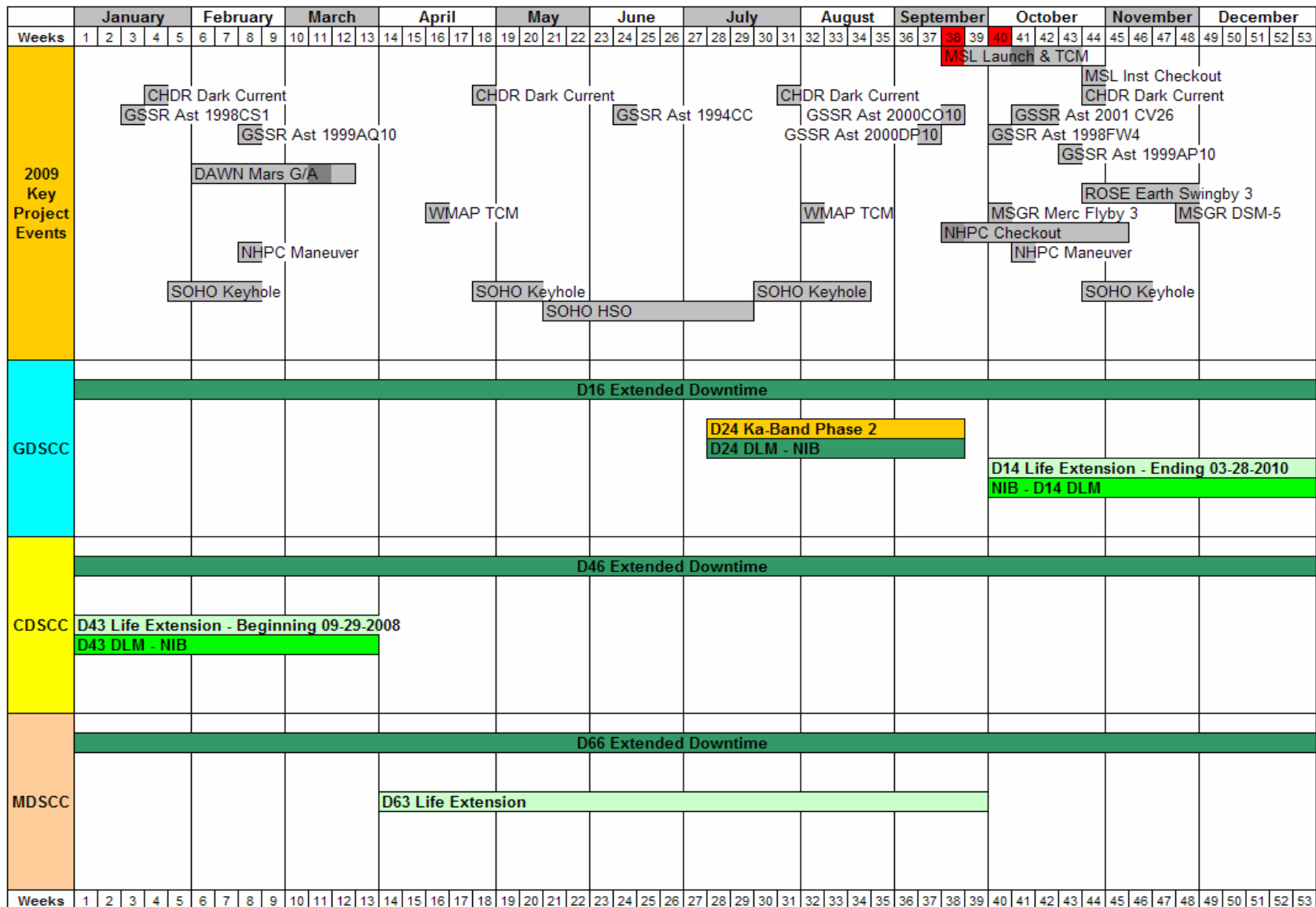
Revised: June 20, 2007

Antenna Downtime Status and Forecast 2008



Revised: March 12, 2007

Antenna Downtime Status and Forecast 2009



Revised: March 26, 2007

Antenna Downtime Status and Forecast 2010

	January				February				March				April				May				June				July				August				September				October				November				December																																	
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																										
2010 Key Project Events	CAS Tour																																																		GSSR Ast 1998U01								GSSR Mercury																			
	GSSR Mars																GSSR Mercury				GSSR Ast 1999 MN																								GSSR Ast 2003 UV11																																	
					EGS Global VLBI																EGS Global VLBI				EGS Global VLBI				CHDR Dark Current																GSSR Ast 2002 VE68																																	
					EGS EVN J-M5																				EGS EVN J-M5																				EGS Global VLBI				EGS EVN J-M5																													
													KEPL Qtrly. Roll																KEPL Qtrly. Roll												KEPL Qtrly. Roll																																					
	MRO Relay																						MRO MSL Support																																																							
	M010 THEMIS																																																																													
	MRO X/Ka DDOR								MRO X/Ka DDOR								MRO X/Ka DDOR																																																													
																					MSL Approach				MSL Surface Ops																																																					
	SOHO Keyhole																SOHO Keyh				MSL TCM				MSL TCM				MSL EDL				NHPC TCM				NHPC DDOR				NHPC TCM																																					
	Wind TCM												Wind TCM												ROSE Asteroid Flyby																NHPC Checkout				Wind TCM				ROSE DSM-2																													
GDSCC	D14 Life Extension - Beginning 09-28-2009																																																																													
	NIB - D14 DLM																																																																													
													D25 Ka U/L - Proposed																																																																	
CDSCC																																																																														
MDSCC																																																																														
																											D54 Ka-Band Phase 2																																																			
																											D54 DLM																																																			
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																										

Revised: April 2, 2007

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DSN Resource Implementation Planning Matrix By Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	08/01/10	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A
N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 03/26/07 ✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists									